

Late Backup

81

Water Conservation Programs Update



November 19, 2009

Greg Meszaros
Director



Outline

- **Current Policy and Programs**
 - Water Conservation Task Force (WCTF) Recommendations
 - Other Water Conservation Programs
- **Looking to the Future**
- **Gallons Per Capita Per Day (GPCD) Projections**



WCTF Recommendations

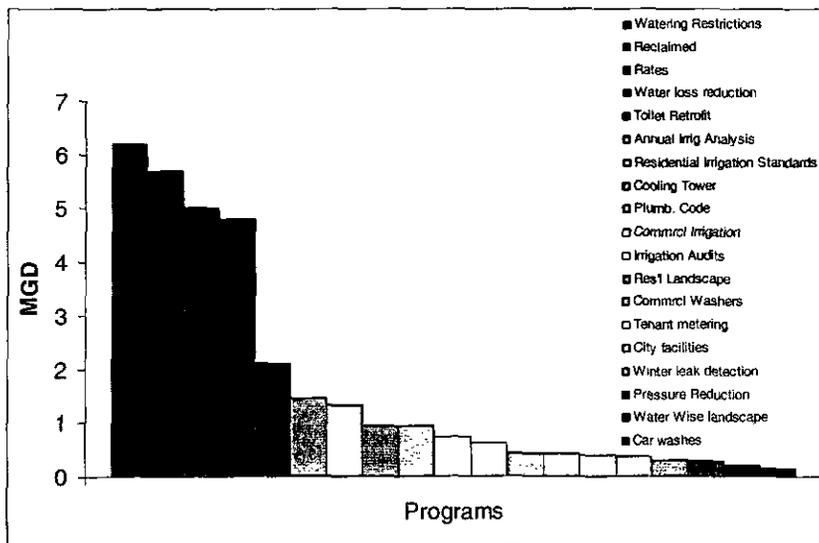
Listed in order of Peak Day Savings Amounts	Peak Day Savings (MGD)
Enhanced Water Use Management	6.16
Reclaimed Water Use	5.95
Utility Water Rates	5.00
Reducing Water Loss	4.80
Mandatory Toilet Retrofit	2.10
Annual Irrigation System Analyses	1.47
Residential Irrigation Standards	1.32
Cooling Tower Management	0.95
Plumbing Code Changes	0.94
Commercial Irrigation Standards	0.74
Enhanced Irrigation Audit Program	0.63
Tenant Water Metering and Billing	0.40
Residential Landscape Ordinance	0.44
Commercial Clothes Washers	0.43
City Facility Conservation	0.37
Winter Leak Detection Program	0.31
Pressure Reduction Program	0.29
WaterWise Landscape Option	0.21
Car Washes	0.15
Enhanced Public Education	n/a
TOTALS	32.65

- **May 2007 Council Adoption of WCTF Recommendations**

- "Road Map" for conservation efforts
- Stated Goal: Reduce peak day demand by 1% per year (25 MGD)
- Creation of Citizens Water Conservation Implementation Task Force as an advisory group



2007 WCTF Measures in Order of Ten Year Estimated Peak Day Savings (in Million Gallons per Day)



Watering Restrictions

- Permanent Year-round Restrictions
 - Limit commercial, multifamily to Tuesdays & Fridays
 - Prohibit automatic irrigation between 10am and 7pm
- Seasonal Residential Restrictions (Stage I)
 - May 1 – September 30
 - Single family homes have 2 watering days a week
 - Odd addresses: Wednesdays and Saturdays
 - Even addresses: Thursdays and Sundays
 - Only hand watering allowed between 10am and 7pm
- Stage II Watering Restrictions
 - 1 watering day a week
 - Odd addresses Commercial, multifamily: Tuesday
 - Odd addresses Commercial, multifamily: Friday
 - Odd Residential addresses: Saturday
 - Even Residential addresses: Sunday
 - Automatic irrigation only between midnight and 10am



Reclaimed Water

- Several large reclaimed projects currently under design/construction
 - UT Line: Under Construction
 - Bergstrom: 60% Design
 - Guerrero Park: 30% Design
- Proposed 10-year CIP Spending Plan: approximately \$70 million
- Projected Additional Peak Day Potable Water Savings in 10-Year time-frame: 6 MGD

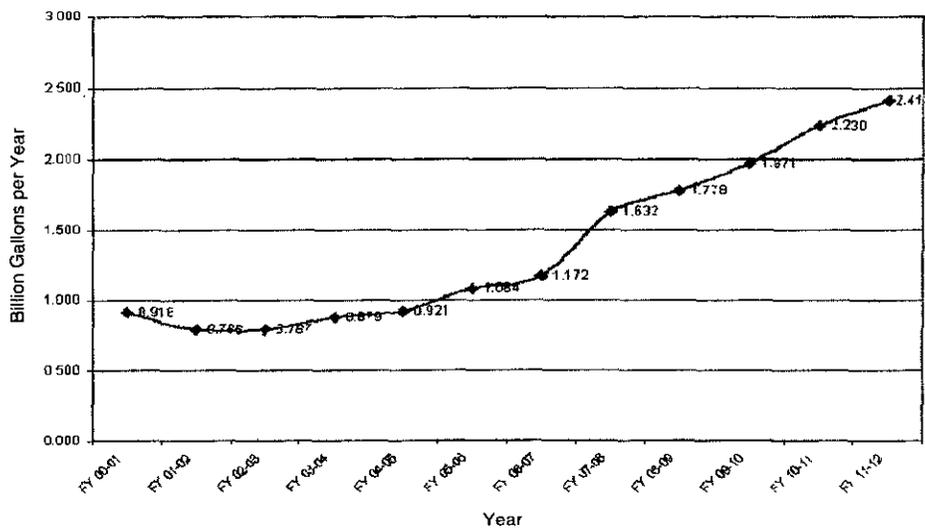
Fiscal Year	Actual Expenses
FY 2005	\$2,606,556
FY 2006	\$886,365
FY 2007	\$803,646
FY 2008	\$3,529,363
FY 2009	\$4,843,504
5-Year Total	\$12,669,435

Fiscal Year	Proposed Spending
FY 2010	\$10,600,000
FY 2011	\$8,050,000
FY 2012	\$1,550,000
FY 2013	\$1,500,000
FY 2014	\$7,240,000
CIP Plan Total	\$28,940,000



Reclaimed Water

Reclaimed Water Use By Fiscal Year

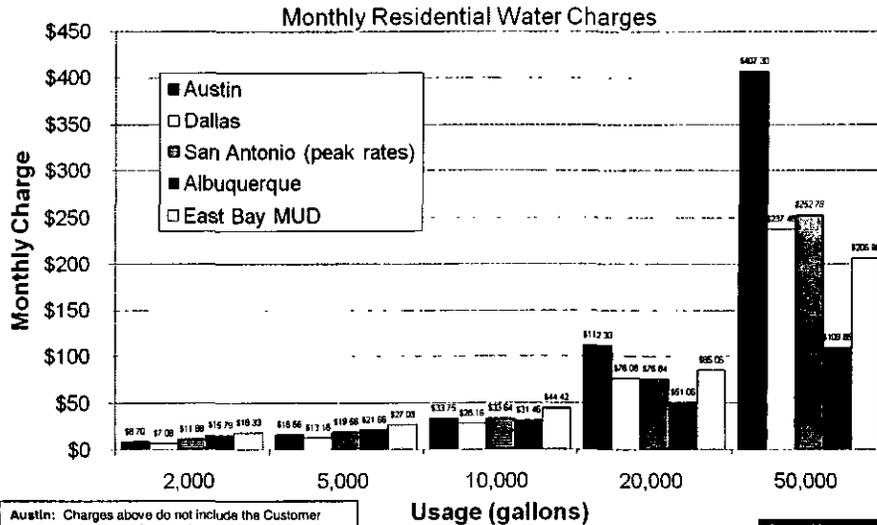


Conservation Rates

- 5TH residential block began November 1
- Adds to residential block rates that were already the steepest in the nation for high users
- Since mid-1990s AWU conservation rates have rewarded conservation and shifted costs to high users



Water Conservation & Rates



Austin: Charges above do not include the Customer Assistance Program (CAP) waiver of \$6.70 per month. Nearly 4,000 (> 2% of residential customers) are waived this charge (i.e., CAP customer monthly charge for 2,000 gallons = \$8.70 - \$6.70 = \$2.00)



Addressing Water Loss

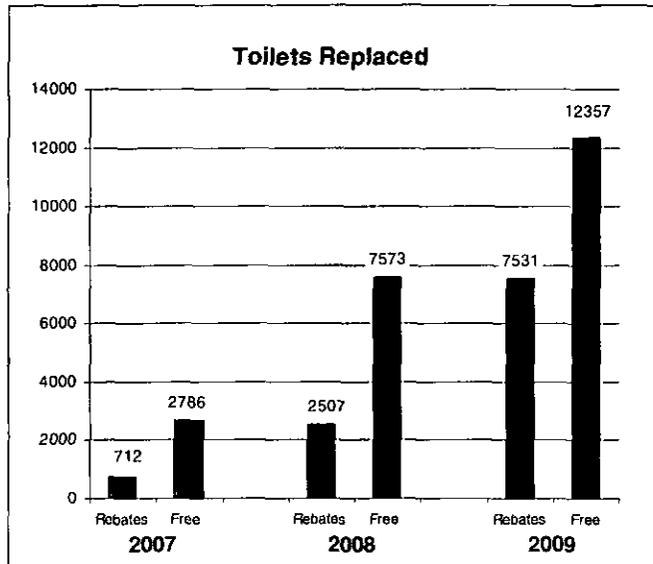
- Reallocated resources to main replacement
- Meter testing and repairs have increased by over 50% in last year
- Visible water leaks now responded to in same day
- New full time employees assigned

Water Main Replacement 5-Year CIP Spending	
FY 2010	\$24.1 M
FY 2011	\$17.0 M
FY 2012	\$12.9 M
FY 2013	\$12.9 M
FY 2014	\$14.9 M
Total	\$81.8 M



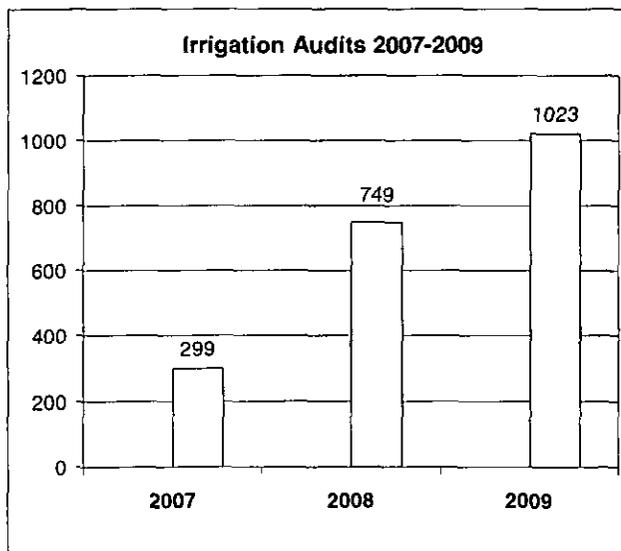
Toilet Rebates and Free Toilets

- Demand for free toilets and toilet rebates has outweighed supply and budget
- \$3 million to amend rebate budget on today's Council agenda
- New Free Toilet contract comes to Council December 5th



Irrigation Audits

- January 2008 – Irrigation system design & permitting requirements incorporated into the plumbing code
- WCTF Pending Recommendations:
 - Landscape Requirements
 - Mandatory Irrigation Audits



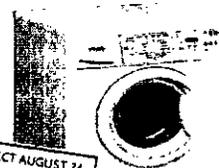
Other WCTF Measures

- Incentives for pressure reduction
- Establish Citizens' advisory group
- Plumbing code changes
 - Requiring installation of submeters in new multifamily properties
 - Establishing efficiency standards for cooling towers, car washes, urinal flush volume
 - Prohibiting once-through cooling, liquid ring vacuum pumps



Water Conservation – Programs

- Toilet, Washing Machine, Pressure Valve and Rainwater Harvesting Rebates
- Free Irrigation Audits
- Mandatory Water Restrictions
- Education, Outreach, Speakers Bureau



STAGE 2 WATER USE RESTRICTIONS TOOK EFFECT AUGUST 24

RESIDENTIAL	RESIDENTIAL	COMMERCIAL MULTIFAMILY	COMMERCIAL MULTIFAMILY
<small>RESIDENTIAL: AUTOMATICALLY SHUT OFF WATER BEFORE LEAVING HOME. COMMERCIAL: AUTOMATICALLY SHUT OFF WATER BEFORE LEAVING OFFICE.</small>			
Saturday	Sunday	Tuesday	Friday



Enhanced Marketing Campaign

- **Additional funding for marketing/outreach as part of the Budget Amendment for Council approval today**
- Launch of new Water Conservation ad campaign
 - Thank You Austin for Saving Water
- Increased direct mailings on conservation programs
- Implement neighborhood based conservation programs
- Continued outreach to low income customers



Looking to the Future

- **New/Expanded landscape programs under development**
 - Grow Green
 - Stormwater runoff used for irrigation
- **Citizen's Task Force deliberations**
 - Funding for potential task force recommendations included in budget amendment
- **Community Eager to Save More Water**



GPCD Projections

AWU Projections as Approved in the 2009 State Water Conservation Plan

Year	Projected Gallons Per Capita Per Day (GPCD) with Conservation and Reuse	
	Total	Retail Non-Industrial
2009	170.43	154.78
2014	156	141.08
2019	149.95	134.24

Retail Non-Industrial Projections do not include wholesale consumption or consumption by large industrial customers



Questions?

